

Teresa Tenbrink



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From: Dr. Stefan K. <drstefank@gmail.com>
Sent: Sunday, March 02, 2014 6:10 PM
To: RBurns-Web; Stump-Web; Burns-Web; Pierce-Web; BitterSmith-Web
Cc: Sedona natesh
Subject: *** REPORT OF HARMFUL BIOLOGICAL RF EFFECTS (85pp)- For Docket Number:
E-00000C-11-0328 Utility name: APS
Attachments: Biological_and_Health_Effects_of_Microwave_Radio_Frequency_Transmissions.pdf
Follow Up Flag: Follow up
Flag Status: Flagged

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AZ CORP COMMISSION
DOCKET CONTROL

Stefan Kasian, Ph.D.
P.O. Box 7882
Tempe, AZ 85821
2 March 2014

ORIGINAL

**REPORT OF POTENTIALLY HARMFUL BIOLOGICAL EFFECTS OF MICROWAVE RF, E.G.
"SMART METERS" (85 PAGES, ATTACHED)**

Arizona Corporation Commission
Utilities Division
1200 W Washington St
Phoenix, AZ 85007

Arizona Corporation Commission
DOCKETED

MAR 03 2014

[Re: For Inclusion in]
[Docket Number: E-00000C-11-0328]
[Utility name: APS]

DOCKETED BY

Dear Commissioners:

The Commission had requested Department of Health Services to conduct a study on the health effect of microwave radiation of smart grid and smart meter.

A group of physicians lead by Dr. Paul Dart in Oregon spent 18 months researching current medical literature on the biological or "non-thermal" effects of microwave radio frequency transmissions, in an effort to assist the Eugene Water and Electric Board in making prudent decisions on installing an AMI infrastructure of RF-transmitting "smart" electric meters. The name of the report is "BIOLOGICAL AND HEALTH EFFECTS OF MICROWAVE RADIO FREQUENCY TRANSMISSIONS". Please include the report its entirety in the Docket. (See attached).

Here's what they found: Existing scientific research offers strong evidence that the chronic exposure of the public to microwave RF transmissions produces **serious acute** and **chronic health effects**.

The most common **acute** symptoms are sleep disturbance, headache, irritability, fatigue, and concentration difficulties. Other symptoms may include depression, dizziness, tinnitus, burning and flushed skin, digestive disturbance, tremor, and cardiac irregularities.

Chronic exposure to RF can also cause chronic physiologic changes, including **altered endocrine** function (both melatonin and other hormones), and increased oxidant stress that can lead to **increased** levels of **cancer** and **male infertility**.

They also did some real life measurement of the Elster mesh network. Elster is the same type of smart meters APS is installing in Arizona. They discovered that at a distance of 20 feet the power of the signal coming out of the Elster meter was about **100** times the power of the ambient background signal coming from any specific direction in the residential neighborhood. This power density of 300+ to 400+ $\mu\text{W}/\text{m}^2$ (microWatts per square meter) was **greater** than the signal strength of the cell phone **tower** measured from about 200 meters away.

Therefore, filling a neighborhood with a mesh network of the Elster smart meters would be similar to placing every house in that neighborhood closer than 200 meters from a cell phone tower, each house constantly being pinged by the chatter of multiple beacon signals from the mesh.

A voluntary "opt out" program does not protect the community at large from adverse effects that they are unaware of and unconcerned about. For example, the current research shows that cancer rates are higher in residences near cellular transmission towers. Most people don't know this.

How does a voluntary "opt out" program help the person who develops breast cancer three years after installation of a transmission tower across the street from her house? She didn't know it was a problem.

So it is prudent for the Commission to wait until the Arizona Dept of Health Services submits their report before allowing utilities including APS to continue the installation of Smart Meters in the remaining of Arizona. The consequence can be disastrous if you do not exercise the principle of precaution.

There is enough evidence from the scientific community to indicate the serious health effect from this technology. If you think you can allow the utilities to quickly finish the installation before the results of the DHS report is out, then it is an indication that the Commission is not exercising its due diligence and may subject to legal action for failure to protect the public at large from a preventable risk.

NOTE: This letter of concern and the 85-page attachment is to be submitted in its entirety. Under due process, no pages are to be excluded from this item to be filed in the docket.

All Rights Reserved,

Dr. Stefan Kasian, Ph.D.

Cc: Monnie Ramsell

Teresa Tenbrink

From: M FOGERTY <fogerty47@msn.com>
Sent: Wednesday, February 26, 2014 2:58 PM
To: Pierce-Web; Burns-Web; Stump-Web; BitterSmith-Web; RBurns-Web
Subject: Requesting "Smart" Meter investigation

Dear Commissioner:

I am a resident of the Village of Oak Creek, an unincorporated area in Yavapai County, but having a Sedona zip code. Our provider of electricity, Arizona 'Public' Service Co. (APS) has announced their intention to install "Smart" meters for measuring usage of electricity.

I am concerned about safety. I would like to see some facts from an unbiased safety watch organization verifying there is no health risk associated with these meters. Don't we deserve the same safety precautions with meters as the US Food & Drug administration provides in oversight of medications & foods which are sold to the public? Or at least we should have a choice without penalty of which device we want in our homes.

For decades, radiation has been known to be harmful to people & animals. That is why medical technicians go behind a shield before taking an x-Ray & why we are draped with a lead cover when the dentist's technician takes x-Rays. My aunt, who was a medical technician, lost 2 fingers in the 1950s because not enough was known about radiation technology.

Smart Meter technology does not seem to be regulated, with safety ratings to which the public has clear unbiased access. Now, despite recent public meetings in Big Park, Sedona, & VOC all resulting in requests for no smart meters, or the user being able to opt out without penalty, APS has decided their "**Will**" (?might?) & money need shall prevail. We are being threatened with unreasonable fees should we choose to opt out [initial \$75, plus \$30/mo... exceeding any cost they might have].

It appears this is an area the Arizona Corporation Commission has some regulatory capacity. I am requesting you to provide residents & tax payers with verifiable safety information regarding Smart meters, OR an "Opt-out" option which is not punitive.

Michaela Fogerty
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